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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,345

DATE: 08/13/2001

TIME: 10:05:03

Input Set : A:\Nih339-1.app

Output Set: N:\CRF3\08132001\I581345.raw

ENTERED

3 <110> APPLICANT: Pastan, Ira H.
 4 Chowdhury, Partha S.
 5 The Government of the United States
 6 as represented by The Secretary of the
 7 Department of Health and Human Services
 9 <120> TITLE OF INVENTION: Antibodies, Including Fv Molecules, and
 10 Immunoconjugates Having High Binding Affinity for
 11 Mesothelin and Methods for Their Use
 13 <130> FILE REFERENCE: 015280-339100US
 15 <140> CURRENT APPLICATION NUMBER: US 09/581,345
 16 <141> CURRENT FILING DATE: 2000-09-27
 18 <150> PRIOR APPLICATION NUMBER: US 60/067,175
 19 <151> PRIOR FILING DATE: 1997-12-01
 21 <150> PRIOR APPLICATION NUMBER: WO PCT/US98/25270
 22 <151> PRIOR FILING DATE: 1998-11-25
 24 <160> NUMBER OF SEQ ID NOS: 9
 26 <170> SOFTWARE: PatentIn Ver. 2.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 723
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Description of Artificial Sequence:SS scFv
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 39 agccatggaa agagccttga gtggattgga cttattactc cttacaatgg tgcttctagc 180
 40 tacaaccaga agttcagggg caaggccaca ttaactgtag acaagtcac cagcacagcc 240
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 44 cagtctccag caatcatgtc tgcattctca ggggagaagg tcaccatgac ctgcagtgcc 480
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 46 tggatttatg acacatccaa actggcttct ggagtcccag gtcgcttcag tggcagtggg 600
 47 tctggaaact cttactctct cacaatcagc agcgtggagg ctgaagatga tgcaacttat 660
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 49 aaa 723
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 53 <212> TYPE: DNA
 54 <213> ORGANISM: Pseudomonas aeruginosa
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: Pseudomonas aeruginosa exotoxin A CDS
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 62 gtgctcgacc tcaaggacgg cgtgcgttcc agccgcatga gcgtcgacct ggccatcgcc 180

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65 gaaggcggcg tcgagccgaa caagccgggtg cgctacagct acacgcgcca ggcgcgcggc 360
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67 ttcattccacg aactgaacgc cggcaaccag ctccagccaca tctcgcggat ctacaccatc 480
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69 cagcagagca acgagatgca gccgacgctc gccatcagcc atgccggggt cagcgtggtc 600
70 atggcccaga cccagcccgcg ccgggaaaag cgctggagcg aatgggccag cggcaagggtg 660
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90 cgcaacgtcg gcggcgacct cgacctgtcc agcatccccg acaaggaaca ggcgatcagc 1860
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98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence:New G2 NdeI
100 back primer
102 <400> SEQUENCE: 3
103 taagaaggag atatacatat gcaggtacaa ctgcagcagt ctggg 45
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 42
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence:New G2 HindIII
112 forward primer
114 <400> SEQUENCE: 4
115 gccctcggga cctccggaag cttttatttc caactttgtc cc 42
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 241

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119 <212> TYPE: PRT
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123 <223> OTHER INFORMATION: Description of Artificial Sequence:SS scFv
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130           20           25           30
132 Tyr Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
133           35           40           45
135 Ile Gly Leu Ile Thr Pro Tyr Asn Gly Ala Ser Ser Tyr Asn Gln Lys
136           50           55           60
138 Phe Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala
139  65           70           75           80
141 Tyr Met Asp Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe
142           85           90           95
144 Cys Ala Arg Gly Gly Tyr Asp Gly Arg Gly Phe Asp Tyr Trp Gly Gln
145           100          105          110
147 Gly Thr Thr Val Thr Val Ser Ser Gly Val Gly Gly Ser Gly Gly Gly
148           115          120          125
150 Gly Ser Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala
151           130          135          140
153 Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala
154 145           150           155           160
156 Ser Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln Lys Ser Gly Thr
157           165           170           175
159 Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val
160           180           185           190
162 Pro Gly Arg Phe Ser Gly Ser Gly Ser Gly Asn Ser Tyr Ser Leu Thr
163           195           200           205
165 Ile Ser Ser Val Glu Ala Glu Asp Asp Ala Thr Tyr Tyr Cys Gln Gln
166           210           215           220
168 Trp Ser Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile
169 225           230           235           240
171 Lys
175 <210> SEQ ID NO: 6
176 <211> LENGTH: 15
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:linker peptide
182   connecting V-H and V-L in SS scFv
184 <400> SEQUENCE: 6
185 Gly Val Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
186   1           5           10           15
189 <210> SEQ ID NO: 7
190 <211> LENGTH: 4
191 <212> TYPE: PRT

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192 <213> ORGANISM: Artificial Sequence
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197 <400> SEQUENCE: 7
198 Gly Gly Gly Ser
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203 <211> LENGTH: 4
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205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxyl
209 terminus
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212 Lys Asp Glu Leu
213 1
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217 <211> LENGTH: 4
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence:carboxyl
223 terminus
225 <400> SEQUENCE: 9
226 Arg Glu Asp Leu
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VERIFICATION SUMMARY

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Input Set : A:\Nih339-1.app

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